DEPARTMENT OF GEOLOGY, CENTRE OF ADVANCED STUDY
KUMAUN UNIVERSITY, NAINITAL 263 002, INDIA
(Dated: 04 November 2014)

GLOBAL TENDER

Tenders are invited under sealed cover separately for each bid from manufacturer/authorized firms for the procurement and installation of equipments etc. as per Bid 1 to 6. Bid-1: Polarizing and stereo-zoom microscopes; Bid-2: EVO Scanning Electron Microscopy (SEM) with EDS-EDAX and CL; Bid-3: Spares and accessories of AAS (Varian AA240FS); Bid-4: Jaw Crusher, Disc Mill, Ball Mill, Isodynamic Separator, Grinding and Polishing Machine, Compression Testing Machine, Ultrasonic Water Bath; Bid-5: Software and hardware for GIS, Geotechnical and Computational works. Bid-6: Laboratory Worktops and Cabinets. The tender document for each bid can be had from the office of the Department of Geology, Kumaun University, Nainital on all working days from 05 to 25 November 2014 on payment of Rs 1135.00 (including taxes) by Demand Draft drawn in favour of the Assistant Accounts Officer, D. S. B. Campus, Kumaun University, payable at Nainital. The details of bids and tender document can be downloaded from the University website www.kunainital.ac.in and be submitted along with tender fee etc. up to 25 November 2014.

Head, Department of Geology, Kumaun University, Nainital 263 002, India

---

BID-1
TENDER DOCUMENT
DEPARTMENT OF GEOLOGY, CENTRE OF ADVANCED STUDY
KUMAUN UNIVERSITY, NAINITAL 263002
Bid Reference: KU/Geol/Tender/2014/Bid-1

1. Manufacture's/Supplier's Name and full address :

2. Tender fee (non-refundable) (DD No. and date) in favour of Assistant Account Officer DSB Campus, Kumaun University, Nainital :

3. Earnest money (DD No. and date) in favour of Assistant Account Officer DSB Campus, Kumaun University, Nainital :

4. Signature of the Bidder/Supplier :
   Date :

Note: Each page of the tender document must be signed.

Sealed Tenders are invited for the **purchase** of Polarizing Microscope (Educational) for ores, rock thin section specimen, Binocular Stereo-zoom Microscope, Research Polarized Microscope, Advanced Polarized Microscope with Automated Point Counter etc. as per given technical specification, in the Department of Geology, Kumaun University, Nainital from sole manufactures or their authorized representatives. The **Annual Maintenance Cost** (AMC) for each equipment, after the expiry of warranty period, should also be quoted. The cost of the Tender document is Rs. 1135.00 and Bid Security Amount is 2% of the total cost of equipments. The time schedule of the procurement is as follows.

(a) Bid reference **KU/Geol/Tender/2014/Bid-1**. This should be referred in all correspondence and also on the top of the envelopes containing bid etc.

(b) Price of the bidding document (non-refundable) : Rs. 1135.00

(c) Commencement of sale of bids: 05 to 25 November 2014.

(d) Last date of submission of bids : 25 November 2014

(e) Date of opening of technical bid: 01 December 2014

(f) Date of commercial bid opening : 02 December 2014

(g) Place of opening of bids : Department of Geology, Kumaun University, Nainital 263 002

(h) Address of Communication : Head and Coordinator
Department of Geology
Centre of Advanced Study
Kumaun University
Nainital 263002
Uttarakhand, India

GENERAL CONDITIONS

1. The bids are to be submitted in two parts separately for (i) Technical and (ii) Commercial bids in separate sealed cover for each bid. The bid reference number should be clearly marked on the top of the envelope.
2. The bids must be accompanied by earnest money in the form of a Demand Draft in favour of **Assistant Accounts Officer, DSB Campus, Kumaun University, Nainital**. Unsuccessful bidder's security money will be returned as early as possible. No interest will be paid on the security money.
3. Bids will be opened in the presence of a committee and interested bidders may also attend the meeting at the specified date and time at their own expenses.
4. Price of the goods should be quoted FOR Nainital.
5. Procurement rules of the university will be applicable for purchase of the items.
6. If a foreign bidder has engaged an Indian agent, it will required to give the following details in their offer
    a. Name and address of the Indian agent
    b. Services to be rendered by the agent
    c. The amount of remuneration for the agent included in the offer
7. The documentary evidence of the bidder's qualification to perform the contract, if its bid is accepted regarding his financial, technical and production capabilities necessary to perform the contract should be specified properly to the purchaser's satisfaction.
8. Documentary evidence to the jobs and services eligibility shall consist of a statement in the price schedule on the country of origin of goods and services which shall be confirmed by a certificate of origin at the time of shipment.
9. The documentary evidence of goods and services conformity to the bidding document may be in the form of literature drawing and date and shall furnish a details discussion of goods with essential technical and performance characteristics.
10. The validity of bids should be for a minimum of one year from the date of opening of bids.
11. The expected date of delivery of goods after the award of the contract should be mentioned in the bid.
12. Bids received after the deadline of submission will be rejected.
13. Bids should be submitted with the authorized signature and duly stamped in each page of the bid document.
14. The performance of the equipments to be procured in the Department will have to be undertaken by the bidder.

15. Besides the term and conditions mentioned herein the import rules as applied by the Government of India will be applicable and in the event of any dispute the jurisdiction shall be the High Court of Uttarakhand at Nainital.
16. The bidder is expected to examine all instruments, terms and specifications as given in the bidding document. Failure to furnish all information required in the bidding document or submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in rejection of its bid.
17. The bidders are expected to provide TAN/PAN/CST registration number as applicable. Turn-over and balanced sheet of the last two financial years of the bidders should be attached.
18. Warranty and guarantee of each equipment and parts should be specified.
19. Competent Authority reserves the right to accept or reject any or all the tenders without assigning any reason.

Other Conditions

1. Bidder should also quote any other items that are not included in the above list but is essential for the operation of the system.
2. Bidder should have servicing capability.
3. Bidder has to perform the on-site testing of all the equipments.
4. Bidder shall submit the list of users and the user certificate of the equipment quoted.
5. Bidder shall include all relevant literature of the equipment quoted.
6. Bidder should include the details Para-wise compliance statement along with the bid.

Warranty

1. The successful bidder must owe a full warranty of all hardware and software as per terms and conditions for a period of one year after commissioning of equipments.
2. During the warranty period the bidder must respond within 10 days without any cost to Department of Geology for service and running the equipments. The warranty period will be extended proportionally if the down period is beyond 10 days.

Final Acceptance Test

1. The testing should be done for all the equipments supplied. All individual components should be sufficiently tested prior to shipment and checked for completeness of the specification quoted.
2. The bidder should successfully demonstrate the performance of all the equipments after supply as per our tender specification.
3. The successful bidder must integrate, install and test all the equipment at Department of Geology. The installation, testing and commissioning should start within two weeks after the equipments arrives at the site. The bidder will perform on-site test of all the equipments to be designated representative. After satisfactory completion of on-site test, the system will be operated continuously for a period of 15 days. If it functions without any hardware or software failure during this period, the system will be accepted as commissioned.

Procurement Details

1. Tenders to be invited under two part tendering system, namely Part-I: Techno-Commercial Bid and Part-II: Commercial Bid.
2. Payment Terms- Payment to be made in two parts.

a. The I-Part of 80 % payment to be made through Irrevocable Letter of Credit/ Bank Transfer against shipping documents.
b. The II-Part of 20% payment to be made on acceptance of system and on submission of Bank Guarantee for equivalent value with validity for one year from the date of acceptance of goods.

3. For any delay in delivery, liquidated damage @ 1% of contract value per week to be levied with a maximum of 10 weeks. Once maximum is reached termination of order will be considered.
4. RISK PURCHASE VALUE if the supplier fails to supply the goods within the maximum time period specified in the order, the purchase may procure upon such terms and in such manner as it deems appropriate, goods for services similar to those undelivered and the supplier shall be liable to the purchaser for any excess costs for such similar goods and services.

Centre of Advanced Study, Department of Geology
Kumaun University, Nainital

Specifications for Equipments and Associated Materials
(Imported/Indigenous)

ORE GEOLOGY/OPTICAL LAB

1a. Polarizing Microscope for Ore (opaque) specimen (Educational)

- Universal Polarization Microscope for Reflected LED illumination. Koehler Illumination, Rotatable Polarizer & Analyzer for Reflected Light, Universal Power Supply
- Automatic tuning off the illumination after 2 hours of no use
- Centerable Polarization 360° rotating stage (min 178mm dia) with graduations and adjustable brake and vernier
- Rotatable Analyzer and Reflected light Polarizer- rotatable with a graduation - 0°, 45°, 90° and Lamda Plate.
- Eyepiece wide field 10X/20mm FOV with locking screw on one eye tube and cross hair graticule
- Binocular Observation tube should have an inclination of about 30 degree & Interpupillary range 52mm-75 mm
- Pin-in stand for alignment for pol viewing tube
- Reflected Light Illuminator with Built-in adjustable aperture diaphragm
- Four – position centerable objective nosepiece and strain free Pol objective Plan 5x, 10x, 20x and 40x objectives for reflected light
- Self adjusting focus mechanism

(Number of units to be procured will be decided as per requirement.)

1b. Polarizing Microscope for rock thin section specimen (Educational)

- Universal Polarization Microscope for Transmitted LED illumination. Koehler Illumination, Rotatable Polarizer & Analyzer for Transmitted Light, Universal Power Supply and Lamda Plate
- Pol. Centerable & focusable Condenser with magnification labeling and color marking, Add on lens for Condensers

- Time delay shut off by automatically tuning off the illumination after two hours of no use.
- Centrable Polarization 360° rotating stage (min 178mm dia) with graduations and adjustable brake and vernier
- Eyepiece wide field 10X/20mm FOV with locking screw on left eye tube and cross hair graticule
- Binocular Observation tube should have inclination 30 degree & Interpupillary range 52mm-75 mm
- Pin-in stand for alignment for pol viewing tube
- 4 – position centerable objective nosepiece and strain free Pol objective Plan 5x, 10x and higher
- Self adjusting focus mechanism

(Number of units to be procured will be decided as per requirement.)

1c. Binocular (stereo zoom) microscope

(for mineral separation under transmitted and incident light)

- Magnification : 8x to 35x
- Eyepiece : 10x/20
- Interpupillary distance : 50 to 75 mm
- Working distance : 95mm or more
- Resolution : 165Lp/mm or better
- Illumination : Transmitted & incident cold light 5-position LED Individually intensity control with 65000K color Temp
- Dust & moisture proof touch pads controls for illumination
- Auto off after 2 hours if not in use

(Number of units to be procured will be decided as per requirement.)

2. Research Microscope with all accessories

(for thin section and opaque specimen with digital camera and measurement software)

- Universal Polarization Microscope for Transmitted and Reflected LED illumination. Koehler Illumination, Rotatable Polarizer & Analyzer for Reflected and transmitted Light, Universal Power Supply
- Time delay shut off by automatically tuning off the illumination after 2 hours of no use
- Centerable Polarization 360° rotating stage (min 178mm dia) with graduations and adjustable brake and vernier
- Rotatable Analyzer and Polarizer for Transmitted and Reflected light
- Eyepiece wide field 10X/20mm FOV with locking screw on left eye tube and cross hair graticule
- Trinocular Observation tube should have inclination 30 degree & Interpupillary range 52mm-75 mm
- Pol. Centerable & focusable Condenser with magnification labeling and color marking, Add on lens for Condensers
- Focusable and centrable Bertrand lens for advanced Conoscopy
- Set of objectives, dedicated pol objective strain free color corrected 2.5x, 5x/0.12, 10x/0.25 , 20x/0.40, 40x/0.75 and 63x/0.8
- Pin-in stand for alignment for pol viewing tube
- Reflected Light Illuminator with Built-in adjustable aperture diaphragm.

- Self adjusting focus mechanism
- Dedicated microscopic Digital full HD colour camera with sensor (1/2") - max. image size 1920x1080p, pixel size - 3.34 μm x 3.34 μm, speed 30fps
- Standard Imaging software should be integrated with the means of acquiring, storing, calibrating, annotating and interactively and measuring microscope images with a Windows style user interface. Measurements should made by using the mouse to indicate areas, lines, distances, angles, rectangles, count points.
- Suitable Branded computer, photo quality colour printer and UPS should be provided along with microscope.

3. Polarized Microscope (Advanced Research Model)

- Advanced Research Polarizing Microscopy Stand for Polarization for reflected & transmitted light LED white light illumination and perfect daylight intensity at 4500°K); with dovetail for interchangeable stages, stand base including transmitted light axis with motorized aperture and field diaphragms, motorized shutter, automatic Constant Color Intensity Control (CCIC), with LCD-Display. Manual Z- focus drive, with one focusing knob for coarse and fine movement and one focusing knob for fine movement only
- Microscope should be consisting of microscope top with coded Centerable 6-fold revolving nosepiece, including incident light axis Pol with motorized aperture and field diaphragm discs, with motorized 4-fold turret for reflector. SMITH reflector for Pol (advanced Pol-sensitivity)
- Advanced conoscopy module with Infinity Tube system Pol (magnification changer: 1x/1.6x) with iris diaphragm, coded, focusable and centrable Bertrand lens
- Trinocular documentation Pol tube, with fixed viewing angle 20°/ 30°, field of view 25 mm or better, variable beam splitters, 3 beam splitter positions: 0%, 50% 100%
- Objective set: Plan Achromat 1.25x, 5x, 10x, 20x, 50x, 100x (oil) for Thin section study and Special Oil Immersion Plan Achromat Objectives- 10x, 20x and 50x with immersion oil 100ml for Reflected Light illumination
- Plan Achromat Eyepiece pair 10x/22 – both focusable & adjustable; one with reticule for Pol application
- Rotatable Pol Stage with 45°-click stop and Object(mechanical Stage) guide for Pol-stage, with interchangeable resting buttons
- Motorized Condenser with motorized top lens, automatic Koehler illumination, for all objective magnifications with Condenser head P 0.90 S1
- Polarizer 360° rotatable – both for transmitted & reflected light and Analyzer-360°
- Lambda-plate (wave plate), Quarter-Lambda-plate & Quartz Wedge for compensator slot
- Two independent lamp housing for both reflected & transmitted illumination
- Reflected Light Illumination Filters- Panchromatic green filter and Daylight filter
- Stage Micrometer for Reflected and transmitted light. Graticule 10mm= 100 divisions
- Hand-press for samples leveling & Metal object slides (6 pieces)

- Fully HD Digital Colour Camera with High Resolution- more than 4.0 M pixels, High definition live image 1920x1080p,(More than 25 fps).
- Universal Imaging Workstation Software for Image storage, integration, data handling, Phase Percentage, Nodal Analysis, Counting, automatic Measurement, Statistics, Grey Value Estimation, Morphometry, & Application Library
- Suitable computer system, printer and UPS, and other necessary spares are to be offered
- Optional: Point Counting Stage (motorized stepping stage) with special software for modal analysis, petrographic textural and compositional analysis for the collection of igneous, metamorphic, ore, biostratigraphic etc.

BID-2
TENDER DOCUMENT
DEPARTMENT OF GEOLOGY, CENTRE OF ADVANCED STUDY
KUMAUN UNIVERSITY, NAINITAL
Bid Reference: KU/Geol/Tender/2014/Bid-2

1. Manufacture's/Supplier's Name and full address :

2. Tender fee (non-refundable) (DD No. and date) in favour of Assistant Account Officer DSB Campus, Kumaun University, Nainital :

3. Earnest money (DD No. and date) in favour of Assistant Account Officer DSB Campus, Kumaun University, Nainital :

4. Signature of the Bidder/Supplier :
   Date :

Note: Each page of the tender document must be signed.

Sealed Tenders are invited for the **purchase** of (i) EVO Scanning Electron Microscopy (SEM) with Energy-Dispersive (EDS- EDAX) Spectroscopy and (ii) Cathodo-luminiscence (CL) , as per given technical specification, in the Department of Geology, Kumaun University, Nainital from sole manufactures or their authorized representatives. The **Annual Maintenance Cost** (AMC), after the expiry of warranty period, should also be quoted. The cost of the Tender document is Rs. 1135.00 and Bid Security Amount is 2% of the total cost of equipments. The time schedule of the procurement is as follows.

(a) Bid reference **KU/Geol/Tender/2014/Bid-2**. This should be referred in all correspondence and also on the top of the envelopes containing bid etc.

(b) Price of the bidding document (non-refundable) : Rs. 1135.00

(c) Commencement of sale of bids: 05 to 25 November 2014.

(d) Last date of submission of bids : 25 November 2014

(e) Date of opening of technical bid: 01 December 2014

(f) Date of commercial bid opening : 02 December 2014

(g) Place of opening of bids : Department of Geology, Kumaun University, Nainital 263 002

(h) Address of Communication : Head and Coordinator
Department of Geology
Centre of Advanced Study
Kumaun University
Nainital 263002, India

GENERAL CONDITIONS

1. The bids are to be submitted in two parts separately for (i) Technical and (ii) Commercial bids in separate sealed cover for each bid. The bid reference number should be clearly marked on the top of the envelope.
2. The bids must be accompanied by earnest money in the form of a Demand Draft in favour of **Assistant Accounts Officer, DSB Camous, Kumaun University, Nainital**. Unsuccessful bidder's security money will be returned as early as possible. No interest will be paid on the security money.
3. Bids will be opened in the presence of a committee and interested bidders may also attend the meeting at the specified date and time at their own expenses.
4. Price of the goods should be quoted FOR Nainital.
5. Procurement rules of the university will be applicable for purchase of the items.
6. If a foreign bidder has engaged an Indian agent, it will required to give the following details in their offer
    a. Name and address of the Indian agent
    b. Services to be rendered by the agent
    c. The amount of remuneration for the agent included in the offer
7. The documentary evidence of the bidder's qualification to perform the contract, if its bid is accepted regarding his financial, technical and production capabilities necessary to perform the contract should be specified properly to the purchaser's satisfaction.
8. Documentary evidence to the jobs and services eligibility shall consist of a statement in the price schedule on the country of origin of goods and services which shall be confirmed by a certificate of origin at the time of shipment.
9. The documentary evidence of goods and services conformity to the bidding document may be in the form of literature drawing and date and shall furnish a details discussion of goods with essential technical and performance characteristics.
10. The validity of bids should be for a minimum of one year from the date of opening of bids.
11. The expected date of delivery of goods after the award of the contract should be mentioned in the bid.
12. Bids received after the deadline of submission will be rejected.
13. Bids should be submitted with the authorized signature and duly stamped in each page of the bid document.
14. The performance of the equipments to be procured in the Department will have to be undertaken by the bidder.
15. Besides the term and conditions mentioned herein the import rules as applied by the Government of India will be applicable and in the event of any dispute the jurisdiction shall be the High Court of Uttarakhand at Nainital.
16. The bidder is expected to examine all instruments, terms and specifications as given in the bidding document. Failure to furnish all information required in

the bidding document or submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in rejection of its bid.

17. The bidders are expected to provide TAN/PAN/CST registration number as applicable. Turn-over and balanced sheet of the last two financial years of the bidders should be attached.
18. Warranty and guarantee of each equipment and parts should be specified.
19. Competent Authority reserves the right to accept or reject any or all the tenders without assigning any reason.

Other Conditions

1. Bidder should also quote any other items that are not included in the above list but is essential for the operation of the system.
2. Bidder should have servicing capability.
3. Bidder has to perform the on-site testing of all the equipments.
4. Bidder shall submit the list of users and the user certificate of the equipment quoted.
5. Bidder shall include all relevant literature of the equipment quoted.
6. Bidder should include the details Para-wise compliance statement along with the bid.

Warranty

1. The successful bidder must owe a full warranty of all hardware and software as per terms and conditions for a period of one year after commissioning of equipments.
2. During the warranty period the bidder must respond within 10 days without any cost to Department of Geology for service and running the equipments. The warranty period will be extended proportionally if the down period is beyond 10 days.

Final Acceptance Test

1. The testing should be done for all the equipments supplied. All individual components should be sufficiently tested prior to shipment and checked for completeness of the specification quoted.
2. The bidder should successfully demonstrate the performance of all the equipments after supply as per our tender specification.
3. The successful bidder must integrate, install and test all the equipment at Department of Geology. The installation, testing and commissioning should start within two weeks after the equipments arrives at the site. The bidder will perform on-site test of all the equipments to be designated representative. After satisfactory completion of on-site test, the system will be operated continuously for a period of 15 days. If it functions without any hardware or software failure during this period, the system will be accepted as commissioned.

Procurement Details

1. Tenders to be invited under two part tendering system, namely Part-I: Techno-Commercial Bid and Part-II: Commercial Bid.
2. Payment Terms- Payment to be made in two parts.
    a. The I-Part of 80 % payment to be made through Irrevocable Letter of Credit/ Bank Transfer against shipping documents.
    b. The II-Part of 20% payment to be made on acceptance of system and on submission of Bank Guarantee for equivalent value with validity for one year from the date of acceptance of goods.

3. For any delay in delivery, liquidated damage @ 1% of contract value per week to be levied with a maximum of 10 weeks. Once maximum is reached termination of order will be considered.
4. RISK PURCHASE VALUE if the supplier fails to supply the goods within the maximum time period specified in the order, the purchase may procure upon such terms and in such manner as it deems appropriate, goods for services similar to those undelivered and the supplier shall be liable to the purchaser for any excess costs for such similar goods and services.

Centre of Advanced Study, Department of Geology
Kumaun University, Nainital 263002

Specifications for Equipments and Accessories
(Imported/Indigenous)

SCANNING ELECTRON MICROSCOPE LAB

***(I)*EVO Scanning Electron Microscopy (SEM) with Energy-Dispersive (EDS-EDAX) Spectroscopy and *(II)* Cathodo-luminiscence (CL)**

- Resolution: 3.0 nm or better in High Vacuum mode at 30kV 4.0 nm or better in low vacuum mode
- Accelerating Voltage: 200V to 30kV
- Probe Current Range: 1pA to 3 uA or more (continuously adjustable)
- Magnification: Minimum 10x to 1,000,000x or better continuous in both high and low vacuum
- Electron Source: Tungsten hairpin filament
- Vacuum System: Should give ultra clean dry fast vacuum using air cooled Turbo Molecular Pump, Safety measures for electron column against any vacuum failure, Variable pressure range for chamber must be at least 300 Pa or more in low vacuum mode
- Stage Specification: 5 axis motorized stage with movement facility for X = 125 or higher mm, Y = 120 mm or higher, Z = 40 mm or higher, Tilt = 0 to 90°, Rotation = 360° (continuous)
- Detectors: 1. Secondary Electron Detector for use in high vacuum mode, 2. Solid state Back Scattered Electron Detector in all mode for use in high & low vacuum mode, 3. SEI detector for low vacuum, 4.CL imaging Detector
- Image display & processing: 1. 19-inch LCD, 2. image processing resolution of 2kX2k pixel or more, 3. Image from different detectors could be viewed simultaneously in a split-up view area of the monitor, 4. Noise reduction by average or integration method.
- Image format: BMP, JPEG or TIFF
- EDS Option: LN2 free Peltier cooled EDS system with 130ev detector with mapping and quantitative analysis
- Accessories required for SEM: 1. Manual Joystick to adjust stage motors, 2. IRCCD camera for specimen chamber inspection to avoid accident and easy stage navigation, 3. Gold sputter coater, 4. Hard panel for adjusting various functions by knob, 5. 5KVA UPS with ½ Hr battery backup, 6. Various holders for specimen
- Other components and accessories, not listed above, required to run the SEM

BID-3

TENDER DOCUMENT

DEPARTMENT OF GEOLOGY, CENTRE OF ADVANCED STUDY
KUMAUN UNIVERSITY, NAINITAL 263002
Bid Reference: KU/Geol/Tender/2014/Bid-3

1. Manufacture's/Supplier's Name and full address :

2. Tender fee (non-refundable) (DD No. and date) in favour of Assistant Account Officer DSB Campus, Kumaun University, Nainital :

3. Earnest money (DD No. and date) in favour of Assistant Account Officer DSB Campus, Kumaun University, Nainital :

4. Signature of the Bidder/Supplier :
   Date :

Note: Each page of the tender document must be signed.

Sealed Tenders are invited for the **purchase** of Cathode lamps, standard solutions, spares and accessories of AAS Varian Model AA240 FS, as per given technical specification, in the Department of Geology, Kumaun University, Nainital from sole manufactures or their authorized representatives. The **Annual Maintenance Cost** (AMC), after the expiry of warranty period, should also be quoted. The cost of the Tender document is Rs. 1135.00 and Bid Security Amount is 3% of the total cost of equipments. The time schedule of the procurement is as follows.

(a) Bid reference KU/Geol/Tender/2014/**Bid-3**. This should be referred in all correspondence and also on the top of the envelopes containing bid etc.

(b) Price of the bidding document (non-refundable) : Rs. 1135.00

(c) Commencement of sale of bids: 05 to 25 November 2014.

(d) Last date of submission of bids : 25 November 2014

(e) Date of opening of technical bid: 01 December 2014

(f) Date of commercial bid opening : 02 December 2014

(g) Place of opening of bids : Department of Geology, Kumaun University, Nainital 263 002

(h) Address of Communication : Head and Coordinator
Department of Geology
Centre of Advanced Study
Kumaun University
Nainital 263002, India

GENERAL CONDITIONS

1. The bids are to be submitted in two parts separately for (i) Technical and (ii) Commercial bids in separate sealed cover for each bid. The bid reference number should be clearly marked on the top of the envelope.
2. The bids must be accompanied by earnest money in the form of a Demand Draft in favour of **Assistant Accounts Officer, D.S.B. Campus, Kumaun University, Nainital**. Unsuccessful bidder's security money will be returned as early as possible. No interest will be paid on the security money.
3. Bids will be opened in the presence of a committee and interested bidders may also attend the meeting at the specified date and time at their own expenses.
4. Price of the goods should be quoted FOR Nainital.
5. Procurement rules of the university will be applicable for purchase of the items.
6. If a foreign bidder has engaged an Indian agent, it will required to give the following details in their offer
    a. Name and address of the Indian agent
    b. Services to be rendered by the agent
    c. The amount of remuneration for the agent included in the offer
7. The documentary evidence of the bidder's qualification to perform the contract, if its bid is accepted regarding his financial, technical and production capabilities necessary to perform the contract should be specified properly to the purchaser's satisfaction.
8. Documentary evidence to the jobs and services eligibility shall consist of a statement in the price schedule on the country of origin of goods and services which shall be confirmed by a certificate of origin at the time of shipment.
9. The documentary evidence of goods and services conformity to the bidding document may be in the form of literature drawing and date and shall furnish a details discussion of goods with essential technical and performance characteristics.
10. The validity of bids should be for a minimum of one year from the date of opening of bids.
11. The expected date of delivery of goods after the award of the contract should be mentioned in the bid.
12. Bids received after the deadline of submission will be rejected.
13. Bids should be submitted with the authorized signature and duly stamped in each page of the bid document.
14. The performance of the equipments to be procured in the Department will have to be undertaken by the bidder.
15. Besides the term and conditions mentioned herein the import rules as applied by the Government of India will be applicable and in the event of any dispute the jurisdiction shall be the High Court of Uttarakhand at Nainital.
16. The bidder is expected to examine all instruments, terms and specifications as given in the bidding document. Failure to furnish all information required in

the bidding document or submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in rejection of its bid.

17. The bidders are expected to provide TAN/PAN/CST registration number as applicable. Turn-over and balanced sheet of the last two financial years of the bidders should be attached.
18. Warranty and guarantee of each equipment and parts should be specified.
19. Competent Authority reserves the right to accept or reject any or all the tenders without assigning any reason.

Other Conditions

1. Bidder should also quote any other items that are not included in the above list but is essential for the operation of the system.
2. Bidder should have servicing capability.
3. Bidder has to perform the on-site testing of all the equipments.
4. Bidder shall submit the list of users and the user certificate of the equipment quoted.
5. Bidder shall include all relevant literature of the equipment quoted.
6. Bidder should include the details Para-wise compliance statement along with the bid.

Warranty

1. The successful bidder must owe a full warranty of all hardware and software as per terms and conditions for a period of one year after commissioning of equipments.
2. During the warranty period the bidder must respond within 10 days without any cost to Department of Geology for service and running the equipments. The warranty period will be extended proportionally if the down period is beyond 10 days.

Final Acceptance Test

1. The testing should be done for all the equipments supplied. All individual components should be sufficiently tested prior to shipment and checked for completeness of the specification quoted.
2. The bidder should successfully demonstrate the performance of all the equipments after supply as per our tender specification.
3. The successful bidder must integrate, install and test all the equipment at Department of Geology. The installation, testing and commissioning should start within two weeks after the equipments arrives at the site. The bidder will perform on-site test of all the equipments to be designated representative. After satisfactory completion of on-site test, the system will be operated continuously for a period of 15 days. If it functions without any hardware or software failure during this period, the system will be accepted as commissioned.

Procurement Details

1. Tenders to be invited under two part tendering system, namely Part-I: Techno-Commercial Bid and Part-II: Commercial Bid.
2. Payment Terms- Payment to be made in two parts.
    a. The I-Part of 80 % payment to be made through Irrevocable Letter of Credit/ Bank Transfer against shipping documents.

b. The II-Part of 20% payment to be made on acceptance of system and on submission of Bank Guarantee for equivalent value with validity for one year from the date of acceptance of goods.

3. For any delay in delivery, liquidated damage @ 1% of contract value per week to be levied with a maximum of 10 weeks. Once maximum is reached termination of order will be considered.
4. RISK PURCHASE VALUE if the supplier fails to supply the goods within the maximum time period specified in the order, the purchase may procure upon such terms and in such manner as it deems appropriate, goods for services similar to those undelivered and the supplier shall be liable to the purchaser for any excess costs for such similar goods and services.

Centre of Advanced Study, Department of Geology
Kumaun University, Nainital 263002

Specifications for Equipments and Accessories
(Imported/Indigenous)

GEOCHEMICAL LABORATORY

1. **Set of cathode lamps compatible with AAS Varian model AA240FS**
   - Cathode lamps for Ti, Ba, Cs, Th, U, Hf, Ta, Au, Y, Nb.
2. **Standard solutions for AAS Varian with concentration of 1000 ppm-100ml bottle, for the following elements**

   Fe, Na, k, Mn, Cu, Pb, Zn, Ca, Mg, P, Pd, Sn, Sb, Mo, Ru, Sr, Be, Co, Rb, Zr, Sc, V, Ga, Ag, Cd, Cr,
3. **Spares and accessories of AAS unit (Varian AA240FS)**

- Cylinder with analytical/ Instrumental grade gases, with regulator
- Acetylene (C_2H_2): 99.6% purity; Size approx. 100 litres capacity
- Nitrous Oxide (N_2O): 99.9% purity; Size approx. 100 litres capacity
- Argon: 99.9% purity; Size approx. 130 litres capacity
- Nebulizer- Venturi Kit for Varian AA240FS
- Graphite tube (GTA 120) for Varian AA240FS
- Water deionizer (50 ltr/hr) with double distilled water (4 ltr/hr)
- Uninterrupted Power Supply (UPS) – 15 KVA with power back – up of minimum 2 hrs or more; voltage range between 160 and 240 Volts

---

BID-4
TENDER DOCUMENT
DEPARTMENT OF GEOLOGY, CENTRE OF ADVANCED STUDY
KUMAUN UNIVERSITY, NAINITAL 263002
Bid Reference: KU/Geol/Tender/2014/Bid-4

1. Manufacture's/Supplier's Name and full address :

2. Tender fee (non-refundable) (DD No. and date) in favour of Assistant Account Officer DSB Campus, Kumaun University, Nainital :

3. Earnest money (DD No. and date) in favour of Assistant Account Officer DSB Campus, Kumaun University, Nainital :

4. Signature of the Bidder/Supplier :
   Date :

Note: Each page of the tender document must be signed.

Sealed Tenders are invited for the **purchase** of Bid-4: Jaw Crusher, Disc Mill, Ball Mill, Isodynamic Separator, Grinding and Polishing Machine, Compression Testing Machine, Ultrasonic Water Bath, as per given technical specification, in the Department of Geology, Kumaun University, Nainital from sole manufactures or their authorized representatives. The **Annual Maintenance Cost** (AMC), after the expiry of warranty period, must be quoted. The cost of the Tender document is Rs. 1135.00 and Bid Security Amount is 2% of the total cost of equipments. The time schedule of the procurement is as follows.

(a) Bid reference KU/Geol/Tender/2014/**Bid-4**. This should be referred in all correspondence and also on the top of the envelopes containing bid etc.

(b) Price of the bidding document (non-refundable): Rs. 1135.00

(c) Commencement of sale of bids: 05 to 25 November 2014.

(d) Last date of submission of bids : 25 November 2014

(e) Date of opening of technical bid: 01 December 2014

(f) Date of commercial bid opening : 02 December 2014

(g) Place of opening of bids : Department of Geology, Kumaun University, Nainital 263 002

(h) Address of Communication : Head and Coordinator
Department of Geology
Centre of Advanced Study
Kumaun University
Nainital 263002, India

GENERAL CONDITIONS

1. The bids are to be submitted in two parts separately for (i) Technical and (ii) Commercial bids in separate sealed cover for each bid. The bid reference number should be clearly marked on the top of the envelope.
2. The bids must be accompanied by earnest money in the form of a Demand Draft in favour of **Assistant Accounts Officer, DSB Campus, Kumaun University, Nainital**. Unsuccessful bidder's security money will be returned as early as possible. No interest will be paid on the security money.
3. Bids will be opened in the presence of a committee and interested bidders may also attend the meeting at the specified date and time at their own expenses.
4. Price of the goods should be quoted FOR Nainital.
5. Procurement rules of the university will be applicable for purchase of the items.
6. If a foreign bidder has engaged an Indian agent, it will required to give the following details in their offer
    a. Name and address of the Indian agent
    b. Services to be rendered by the agent
    c. The amount of remuneration for the agent included in the offer
7. The documentary evidence of the bidder's qualification to perform the contract, if its bid is accepted regarding his financial, technical and production capabilities necessary to perform the contract should be specified properly to the purchaser's satisfaction.
8. Documentary evidence to the jobs and services eligibility shall consist of a statement in the price schedule on the country of origin of goods and services which shall be confirmed by a certificate of origin at the time of shipment.
9. The documentary evidence of goods and services conformity to the bidding document may be in the form of literature drawing and date and shall furnish a details discussion of goods with essential technical and performance characteristics.
10. The validity of bids should be for a minimum of one year from the date of opening of bids.
11. The expected date of delivery of goods after the award of the contract should be mentioned in the bid.
12. Bids received after the deadline of submission will be rejected.
13. Bids should be submitted with the authorized signature and duly stamped in each page of the bid document.
14. The performance of the equipments to be procured in the Department will have to be undertaken by the bidder.
15. Besides the term and conditions mentioned herein the import rules as applied by the Government of India will be applicable and in the event of any dispute the jurisdiction shall be the High Court of Uttarakhand at Nainital.
16. The bidder is expected to examine all instruments, terms and specifications as given in the bidding document. Failure to furnish all information required in

the bidding document or submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in rejection of its bid.

17. The bidders are expected to provide TAN/PAN/CST registration number as applicable. Turn-over and balanced sheet of the last two financial years of the bidders should be attached.
18. Warranty and guarantee of each equipment and parts should be specified.
19. Competent Authority reserves the right to accept or reject any or all the tenders without assigning any reason.

Other Conditions

1. Bidder should also quote any other items that are not included in the above list but is essential for the operation of the system.
2. Bidder should have servicing capability.
3. Bidder has to perform the on-site testing of all the equipments.
4. Bidder shall submit the list of users and the user certificate of the equipment quoted.
5. Bidder shall include all relevant literature of the equipment quoted.
6. Bidder should include the details Para-wise compliance statement along with the bid.

Warranty

1. The successful bidder must owe a full warranty of all hardware and software as per terms and conditions for a period of one year after commissioning of equipments.
2. During the warranty period the bidder must respond within 10 days without any cost to Department of Geology for service and running the equipments. The warranty period will be extended proportionally if the down period is beyond 10 days.

Final Acceptance Test

1. The testing should be done for all the equipments supplied. All individual components should be sufficiently tested prior to shipment and checked for completeness of the specification quoted.
2. The bidder should successfully demonstrate the performance of all the equipments after supply as per our tender specification.
3. The successful bidder must integrate, install and test all the equipment at Department of Geology. The installation, testing and commissioning should start within two weeks after the equipments arrives at the site. The bidder will perform on-site test of all the equipments to be designated representative. After satisfactory completion of on-site test, the system will be operated continuously for a period of 15 days. If it functions without any hardware or software failure during this period, the system will be accepted as commissioned.

Procurement Details

1. Tenders to be invited under two part tendering system, namely Part-I: Techno-Commercial Bid and Part-II: Commercial Bid.
2. Payment Terms- Payment to be made in two parts.
    a. The I-Part of 80 % payment to be made through Irrevocable Letter of Credit/ Bank Transfer against shipping documents.
    b. The II-Part of 20% payment to be made on acceptance of system and on submission of Bank Guarantee for equivalent value with validity for one year from the date of acceptance of goods.

3. For any delay in delivery, liquidated damage @ 1% of contract value per week to be levied with a maximum of 10 weeks. Once maximum is reached termination of order will be considered.
4. RISK PURCHASE VALUE if the supplier fails to supply the goods within the maximum time period specified in the order, the purchase may procure upon such terms and in such manner as it deems appropriate, goods for services similar to those undelivered and the supplier shall be liable to the purchaser for any excess costs for such similar goods and services.

Centre of Advanced Study, Department of Geology
Kumaun University, Nainital 263002

Specifications for Equipments and Accessories
(Imported/Indigenous)

SAMPLE PREPARATION LABORATORY

1. Jaw Crusher

(Bench top Model)

(230V, 50Hz Breaking Jaw and Wearing Plates of Manganese steel/ stainless steel)

- Applications : Coarse and pre-crushing
- Feed material : Medium hard, hard, brittle, tough
- Material feed size : <35 mm
- Final fineness : d90<0.5 mm
- Collector capacity : 1 liter or more
- Jaw width : 38 X 38 mm or more
- Gap width setting : 0 -15 mm in increments 0.1 mm
- Gap width display : Digital
- Zero point adjustment : Yes
- Hinged Hopper : Yes
- Connection for dust extraction : Dust tight
- Drive : 3-phase motor with frequency
- Drive Power : 1.1 KW or as per manufacturer design and specification.
- W x H x D : As per manufacturer design and specification.
- Net weight approximate : As per manufacturer design and specification.
- Emissions value with regard to workplace LpAeq: <85dB (A)
- Standards : CE
- Wear out warning notice : Yes

2. Disc Mill/Grinder

- Vibratory Disc Mill/Grinder for size reduction, mixing, triturating of medium-hard, hard, brittle, fibrous rock materials
- Initial feed size will be <15 mm and final fineness should be less than 40 um
- Batch size/F

- Feeding quantity should be 35 - 150 ml
- Speed settings 700 rpm to 1500 rpm, continuously adjustable
- Instrument should have frequency controlled 3-phase motor Drive of Nominal motor performance 1.5 kW
- Safety Features as per international Standards, Instrument should be "CE "Confirming
- 1-button operation with graphic display
- Drive- frequency controlled 3-phase motor
- Digital setting /selection of grinding time in hours, minutes and seconds
- Precise timer for grinding operation
- Extremely short grinding time
- Quick action clamping device for grinding set
- Reproducible results
- 10 SOPs can be defined and stored for routine applications
- Programmable starting time
- Agate recognition for automatic speed reduction
- The grinding chamber shall a effective sound insulation
- High mechanical stability during operation
- Inbuilt safety interlock system for the grinding chamber
- No loss of sample during grinding operation
- operation and instruction manual
- Maintenance and service manual

Note: Vendor should quote for complete basic unit with one grinding set of zirconium oxide, stainless steel, stainless steel, tungsten carbide, agate, and should also quote for other grinding sets as optional 100 ml, 250 ml. and other suitable size required for geological works.

3. Ball Mill

- There should be possibility to grind/mix in a bowl simultaneously
- The system should be suitable for size reduction, mixing, homogenizing, mechanical alloying and for feedstock of hard, brittle or fibrous geological materials.
- It shall be possible to use one jar of 50ml / 125 ml / 250 ml / 500 ml capacity
- Vendor should quote jars of different capacities of zirconium oxide, stainless steel , tungsten carbide, agate with 100 No of 10 mm dia balls and 25 balls of 20mm dia, 1000 ball 5 mm diameter.
- The jars should be provided with identification marks indicating the item number, material and volume to facilitate easy trace ability.
- Effective Sun wheel diameter should be 140 mm
- The jars shall be capable of rotating at high speeds up to 1300 rpm without spilling / leakage of the powders
- The ball mill should consist of rotating base plate on which bowl could be firmly fixed, and it should be capable of rotating about its own axis with planetary action with speed ratio 1:2.
- It should be possible to continuously increase the speed of rotation of the base plate and the bowls. The base plate shall have a rpm range of 100/ min – 650/ min.

- The bowls should be capable of being firmly fixed on the rotating platform, so that they are capable of rotating about their axes and are not thrown off accidentally, the system shall have provision for easy clamping device for tightening of bowls.
- The rotating parts should be fully enclosed and a safety locking system be provided such that the motor can be started only if the enclosure is placed firmly in position.
- The offered system should work on 230V, 50Hz.
- The motor for the drive system should be AC drive and of minimum 1200 watts power.
- It should be possible to run the equipment / mill in a sequence of operation such as slow start to maximum speed, a set time of rotating.
- To enhance the performance of the system for continuous operation , suitable fans shall be provided in the system to avoid over heating.
- The instrument must meet the CE / international safety standards

4. Isodynamic Separator

(Magnetic Barrier Laboratory Separator)

It should be used for separating a mixture of diamagnetic and weakly paramagnetic grains. The magnetic system should be inclined so that the gravity urges particles toward the far side of the chute and down its length. The light colored diamagnetic grains are to be deflected along the magnetic barrier, while the darker paramagnetic grains should pass through it and out of the field in the channel on the far side of the divider. It should have the capability for providing separations according to slight differences in either paramagnetic or diamagnetic susceptibility.

It should consist the following:

- Regulated power supply with resistance sensitive voltage control to stabilize current
- Tilt adjustable magnetic barrier system with sprit level and scale
- Regulated magnetic field control should allow ascending magnetic energy gradient across the width of supply channel
- Control for regulating and monitoring of pulsed current preferably ranging from 0 to 100 milliamp (mA) in coils of separator to allow selection and repetition of frequencies ranging from 3 to 35 Hertz (Hz)
- Working with 220-240V A.C. at 50 Hz or suitable transformer to reduce the power.
- Capability for diamagnetic separation of material
- Low Field Control Unit
- Material should visible as it enters the magnetic field and undergoes separation allowing more rapid determination of the effectiveness of the separation.
- It should allow separations exploiting weaker paramagnetic susceptibilities, either separating particles of one more diamagnetic susceptibility from those of a slightly different diamagnetic susceptibility or from weakly paramagnetic susceptibility or from non-magnetic particles.

Separation in the Barrier field:
The equipment should run continuously and the stream of particles traveling through field of the magnetic Barrier Laboratory Separator should split by the opposed magnetic and nonmagnetic forces. Material is to be moved by gravity across the field, through the succession of sheets of ascending magnetic force, toward the region of maximum transverse force. Particles of like susceptibility encounter like magnetic force per unit volume. Particles having susceptibility such that magnetic force opposing their motion exceeds gravitational force are deflected in the vicinity of the sheet of maximum transverse force, while particles having susceptibility that is weaker or of opposite sing pass through it. A component of gravity urges both fractions toward a mechanical divider and out of the field.

Diamagnetic Separations:
Many of the more valuable elements and inorganic compounds are diamagnetic in relatively pure state, including, for example, barium, beryllium, bismuth, boron, carbon (including graphite and diamonds), germanium, gold, silicon, zircon and others. Most organic compounds are diamagnetic.

Relatively pure natural diamonds should be separated from diamonds with inclusions of other minerals for classifying and grading, and for separating synthetic from natural diamonds.

Standard parts for guiding particles into the Barrier field:

- Diamagnetic feed trough,
- Steep side slope feed trough,
- Feed blade, and
- Feed trough assembly

Working with 220-240V A.C. at 50 HZ or suitable Transformer to reduce the power

5. Compression Testing Machine

(For primary crushing/chipping of large rock samples)

- Compression Testing Machine 1000 kN capacity, confirm to the requirement of IS:516 and other international standards like BS & ASTM, four pillar/channel type loading unit, electrically cum hand operated hydraulic pumping unit. Fitted with digital read-out - high stability
- Self aligning platen assembly. The digital machines is to be provided with a pace rate controller, (manually operated) enable to maintain a constant rate of loading.
- It should be a compact unit, making it useful for site applications
- The digital read-out unit, incorporating a 4 digit display, calibrated in KN and features integral load pacing in KN/Sec
- Maximum load to be held and retained for approx 15 min, unless cancelled, using the panel mounted reset switch
- Pace rate set for running the test can be maintained manually
- Clearance between the platen min 300mm
- Clearance between two sides min 200mm, platen size 150mm dia,
- Suitable AC power

6. Ultrasonic Water Bath

- Tank Size : 300 x 200 x 200 mm (internal minimum)
- Overall dimensions : 600 x 300 x 700 mm (minimum)
- Tank Capacity : 12 Liters (minimum)
- Ultrasonic power : 300 Watt 40 ± 3 KHz frequency
- Digital Timer : 0-999 Min
- Heater : Thermostatically controlled SS tubular type heater of 500W Capacity X 1 No.
- Digital Temperature Controller: 0-90° C
- Float Switch : SS float switch to protect heaters and Ultrasonic from dry running
- Drain : drain of appropriate size with SS ball valve
- Inlet : inlet of appropriate size and connection
- Lid : S.S.304, 1.2 mm thick
- Construction : Complete unit made of stainless steel
- Control Panel : All the necessary indicators & control switches should be provided on control panel
- Basket : SS 304 sq. inch or bigger
- Electric Supply : 230V AC, 50Hz.

7. Grinding and Polishing Machine (with semi automatic power head)

- Polisher having universal voltage
- Machine is designed with Platen Cooling to help minimize Platen heat build up & reduce sample deformation in heavy duty use
- LED Lighting Illuminator
- Three 3-digit LED display, 14 status LED's 20 seconds to 99 minutes
- Aluminium/Aluminium Alloy disc with 8 inch dia (minimum)
- 8 inch Bimetalic plate, 8 inch magnetic disc, cloth clamp, paper holding band for 8 inch Aluminium wheel 8 inch dia (minimum)
- Disc should be interchangeable for movement in clockwise/anti-clockwise direction
- Variable Speed 10-500 rpm, in 10 rpm increments
- AC High Torque motor: 1Hp
- Feather colour touch control panel or sealed membrane keypad
- Rigid table top having corrosion proof cabinet
- Flexible water cooling system
- Corrosion resistant wash bowl with free flow drain design
- Water supply pressure 40-100 psi (2.8-6.9 bar)
- Polishing head designed for single or central force applications
- Central Specimen Force: 5-60 lbs (20-260N)
- Single Specimen Force: 1-10 lbs (5-45N)
- Specimen Capacity: Central Mode- 1", 1.25",1.5",(Minimum 3 mounted specimen in one holder) One Blank Holder and One Holder for Rectangular Samples
- Specimen Capacity: Single Mode- 1", 1.25",1.5" ,(Minimum 3 mounted specimen in one holder) and Three Nos. Slide Holders for 27mm x 46 mm slides
- Suitable AC power supply

Details of Dosing System:

- Automatic Dosing system to be provided along with the tray to place the bottles for different grain size diamond suspensions & fine alumina suspensions

Consumables for 500 samples:

- Consumables including grinding / polishing disc, diamond suspension and lubricant suitable for should also be quoted.
- The grinding & polishing discs should be magnetic disc based with diamonds of different grit sizes embedded in a pattern that should ensure uniform material removal resulting into absolutely plane surface.
- Colloidal silica suspension with appropriate cloths.
- Oxide polishing alumina suspension to be mixed with alcohol / different chemicals to adjust pH for chemical – mechanical fine polishing

Safety & General Specifications:

- Emergency stop button should be placed in front and with easiest access for immediate stopping of all moving parts in case of an emergency.
- Spares for 2 years

BID-5

TENDER DOCUMENT

DEPARTMENT OF GEOLOGY, CENTRE OF ADVANCED STUDY
KUMAUN UNIVERSITY, NAINITAL 263002
Bid Reference: KU/Geol/Tender/2014/Bid-5

1. Manufacture's/Supplier's Name and full address :

2. Tender fee (non-refundable) (DD No. and date) in favour of Assistant Account Officer DSB Campus, Kumaun University, Nainital :

3. Earnest money (DD No. and date) in favour of Assistant Account Officer DSB Campus, Kumaun University, Nainital :

4. Signature of the Bidder/Supplier :
   Date :

Note: Each page of the tender document must be signed.

Sealed Tenders are invited for the **purchase** of Bid-5: Software and hardware for GIS, Geotechnical and Computational Facilities, as per given technical specification, in the Department of Geology, Kumaun University, Nainital from sole manufactures or their authorized representatives. The **Annual Maintenance Cost** (AMC), after the expiry of warranty period, must be quoted. The cost of the Tender document is Rs. 1135.00 and Bid Security Amount is 2% of the total cost of equipments. The time schedule of the procurement is as follows.

(a) Bid reference KU/Geol/Tender/2014/**Bid-5**. This should be referred in all correspondence and also on the top of the envelopes containing bid etc.

(b) Price of the bidding document (non-refundable) : Rs. 1135.00

(c) Commencement of sale of bids: 05 to 25 November 2014.

(d) Last date of submission of bids : 25 November 2014

(e) Date of opening of technical bid: 01 December 2014

(f) Date of commercial bid opening : 02 December 2014

(g) Place of opening of bids : Department of Geology, Kumaun University, Nainital 263 002

(h) Address of Communication : Head and Coordinator
Department of Geology
Centre of Advanced Study
Kumaun University
Nainital 263002, India

GENERAL CONDITIONS

1. The bids are to be submitted in two parts separately for (i) Technical and (ii) Commercial bids in separate sealed cover for each bid. The bid reference number should be clearly marked on the top of the envelope.
2. The bids must be accompanied by earnest money in the form of a Demand Draft in favour of **Assistant Accounts Officer, DSB Campus, Kumaun University, Nainital**. Unsuccessful bidder's security money will be returned as early as possible. No interest will be paid on the security money.
3. Bids will be opened in the presence of a committee and interested bidders may also attend the meeting at the specified date and time at their own expenses.
4. Price of the goods should be quoted FOR Nainital.
5. Procurement rules of the university will be applicable for purchase of the items.
6. If a foreign bidder has engaged an Indian agent, it will required to give the following details in their offer
    a. Name and address of the Indian agent
    b. Services to be rendered by the agent
    c. The amount of remuneration for the agent included in the offer
7. The documentary evidence of the bidder's qualification to perform the contract, if its bid is accepted regarding his financial, technical and production capabilities necessary to perform the contract should be specified properly to the purchaser's satisfaction.
8. Documentary evidence to the jobs and services eligibility shall consist of a statement in the price schedule on the country of origin of goods and services which shall be confirmed by a certificate of origin at the time of shipment.
9. The documentary evidence of goods and services conformity to the bidding document may be in the form of literature drawing and date and shall furnish a details discussion of goods with essential technical and performance characteristics.
10. The validity of bids should be for a minimum of one year from the date of opening of bids.
11. The expected date of delivery of goods after the award of the contract should be mentioned in the bid.
12. Bids received after the deadline of submission will be rejected.
13. Bids should be submitted with the authorized signature and duly stamped in each page of the bid document.
14. The performance of the equipments to be procured in the Department will have to be undertaken by the bidder.
15. Besides the term and conditions mentioned herein the import rules as applied by the Government of India will be applicable and in the event of any dispute the jurisdiction shall be the High Court of Uttarakhand at Nainital.
16. The bidder is expected to examine all instruments, terms and specifications as given in the bidding document. Failure to furnish all information required in

the bidding document or submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in rejection of its bid.

17. The bidders are expected to provide TAN/PAN/CST registration number as applicable. Turn-over and balanced sheet of the last two financial years of the bidders should be attached.
18. Warranty and guarantee of each equipment and parts should be specified.
19. Competent Authority reserves the right to accept or reject any or all the tenders without assigning any reason.

Other Conditions

1. Bidder should also quote any other items that are not included in the above list but is essential for the operation of the system.
2. Bidder should have servicing capability.
3. Bidder has to perform the on-site testing of all the equipments.
4. Bidder shall submit the list of users and the user certificate of the equipment quoted.
5. Bidder shall include all relevant literature of the equipment quoted.
6. Bidder should include the details Para-wise compliance statement along with the bid.

Warranty

1. The successful bidder must owe a full warranty of all hardware and software as per terms and conditions for a period of one year after commissioning of equipments.
2. During the warranty period the bidder must respond within 10 days without any cost to Department of Geology for service and running the equipments. The warranty period will be extended proportionally if the down period is beyond 10 days.

Final Acceptance Test

1. The testing should be done for all the equipments supplied. All individual components should be sufficiently tested prior to shipment and checked for completeness of the specification quoted.
2. The bidder should successfully demonstrate the performance of all the equipments after supply as per our tender specification.
3. The successful bidder must integrate, install and test all the equipment at Department of Geology. The installation, testing and commissioning should start within two weeks after the equipments arrives at the site. The bidder will perform on-site test of all the equipments to be designated representative. After satisfactory completion of on-site test, the system will be operated continuously for a period of 15 days. If it functions without any hardware or software failure during this period, the system will be accepted as commissioned.

Procurement Details

1. Tenders to be invited under two part tendering system, namely Part-I: Techno-Commercial Bid and Part-II: Commercial Bid.
2. Payment Terms- Payment to be made in two parts.
    a. The I-Part of 80 % payment to be made through Irrevocable Letter of Credit/ Bank Transfer against shipping documents.

b. The II-Part of 20% payment to be made on acceptance of system and on submission of Bank Guarantee for equivalent value with validity for one year from the date of acceptance of goods.

3. For any delay in delivery, liquidated damage @ 1% of contract value per week to be levied with a maximum of 10 weeks. Once maximum is reached termination of order will be considered.
4. RISK PURCHASE VALUE if the supplier fails to supply the goods within the maximum time period specified in the order, the purchase may procure upon such terms and in such manner as it deems appropriate, goods for services similar to those undelivered and the supplier shall be liable to the purchaser for any excess costs for such similar goods and services.

Centre of Advanced Study, Department of Geology
Kumaun University, Nainital 263 002

Specifications for Equipments and Accessories

(Imported/Indigenous)

SOFTWARE FOR GIS, GEOTECHNICAL AND COMPUTIONAL LAB

(Single/multiuser/academic license/latest version)

- Soil movement software
- Piling software
- MatLAB
- Retaining wall analysis software
- Finite element geotechnical analysis software
- 1RM easiteach software
- GeoSoft educational software
- Rockworks 16 (level 4): Academic
- Statistica BGA+++ with four modules
- Surfer 12
- Grapher 10
- Map Viewer
- DIDGER
- STRATER
- VOXLER
- Arc GIS Info – based university lab Kit GIS software; latest version

OTHER EQUIPMENTS/ITEMS

- Dehumidifier suitable for laboratory size
    - 3.5m x 5.5m x 4m
    - 5.5m x 8m x 4m
- Work station as per various latest configuration
- Desktop as per various latest configuration with window 7/8
- Laser-jet Printers (black)
- Online UPS 5KVA battery backup time 120 minutes, with isolated transformer for single phase AC input/output
- Kappameter (Hand held) for measurement of magnetic susceptibility of rocks and soils (with sensitivity of $1x10^{-6}$ SI unit)
- GPS (Hand Held) with different range of least counts

BID-6

TENDER DOCUMENT

DEPARTMENT OF GEOLOGY, CENTRE OF ADVANCED STUDY
KUMAUN UNIVERSITY, NAINITAL 263 002
Bid Reference: KU/Geol/Tender/2014/Bid-6

1. Manufacture's/Supplier's Name and full address :

2. Tender fee (non-refundable) (DD No. and date) in favour of Assistant Account Officer DSB Campus, Kumaun University, Nainital :

3. Earnest money (DD No. and date) in favour of Assistant Account Officer DSB Campus, Kumaun University, Nainital :

4. Signature of the Bidder/Supplier :
   Date :

Note: Each page of the tender document must be signed.

Sealed Tenders are invited for the **purchase** of Bid-6: Laboratory Worktops and Cabinets, as per given technical specification and design, in the Department of Geology, Kumaun University, Nainital from sole manufactures or their authorized representatives. The **Annual Maintenance Cost** (AMC), after the expiry of warranty period, should also be quoted. The cost of the Tender document is Rs. 1135.00 and Bid Security Amount is 4% of the total cost of equipments. The time schedule of the procurement is as follows.

(a) Bid reference KU/Geol/Tender/2014/**Bid-6**. This should be referred in all correspondence and also on the top of the envelopes containing bid etc.

(b) Price of the bidding document (non-refundable) : Rs. 1135.00

(c) Commencement of sale of bids: 05 to 25 November 2014.

(d) Last date of submission of bids : 25 November 2014

(e) Date of opening of technical bid: 01 December 2014

(f) Date of commercial bid opening : 02 December 2014

(g) Place of opening of bids : Department of Geology, Kumaun University, Nainital 263 002

(h) Address of Communication : Head and Coordinator
Department of Geology
Centre of Advanced Study
Kumaun University
Nainital 263002, India

GENERAL CONDITIONS

1. The bids are to be submitted in two parts separately for (i) Technical and (ii) Commercial bids in separate sealed cover for each bid. The bid reference number should be clearly marked on the top of the envelope.
2. The bids must be accompanied by earnest money in the form of a Demand Draft in favour of **Assistant Accounts Officer, DSB Campus, Kumaun University, Nainital**. Unsuccessful bidder's security money will be returned as early as possible. No interest will be paid on the security money.
3. Bids will be opened in the presence of a committee and interested bidders may also attend the meeting at the specified date and time at their own expenses.
4. Price of the goods should be quoted FOR Nainital.
5. Procurement rules of the university will be applicable for purchase of the items.
6. If a foreign bidder has engaged an Indian agent, it will required to give the following details in their offer
    a. Name and address of the Indian agent
    b. Services to be rendered by the agent
    c. The amount of remuneration for the agent included in the offer
7. The documentary evidence of the bidder's qualification to perform the contract, if its bid is accepted regarding his financial, technical and production capabilities necessary to perform the contract should be specified properly to the purchaser's satisfaction.
8. Documentary evidence to the jobs and services eligibility shall consist of a statement in the price schedule on the country of origin of goods and services which shall be confirmed by a certificate of origin at the time of shipment.
9. The documentary evidence of goods and services conformity to the bidding document may be in the form of literature drawing and date and shall furnish a details discussion of goods with essential technical and performance characteristics.
10. The validity of bids should be for a minimum of one year from the date of opening of bids.
11. The expected date of delivery of goods after the award of the contract should be mentioned in the bid.
12. Bids received after the deadline of submission will be rejected.
13. Bids should be submitted with the authorized signature and duly stamped in each page of the bid document.
14. The performance of the equipments to be procured in the Department will have to be undertaken by the bidder.
15. Besides the term and conditions mentioned herein the import rules as applied by the Government of India will be applicable and in the event of any dispute the jurisdiction shall be the High Court of Uttarakhand at Nainital.

16. The bidder is expected to examine all instruments, terms and specifications as given in the bidding document. Failure to furnish all information required in the bidding document or submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in rejection of its bid.
17. The bidders are expected to provide TAN/PAN/CST registration number as applicable. Turn-over and balanced sheet of the last two financial years of the bidders should be attached.
18. Warranty and guarantee of each equipment and parts should be specified.
19. Competent Authority reserves the right to accept or reject any or all the tenders without assigning any reason.

Other Conditions

1. Bidder should also quote any other items that are not included in the above list but is essential for the operation of the system.
2. Bidder should have servicing capability.
3. Bidder has to perform the on-site testing of all the equipments.
4. Bidder shall submit the list of users and the user certificate of the equipment quoted.
5. Bidder shall include all relevant literature of the equipment quoted.
6. Bidder should include the details Para-wise compliance statement along with the bid.

Warranty

1. The successful bidder must owe a full warranty of all hardware and software as per terms and conditions for a period of one year after commissioning of equipments.
2. During the warranty period the bidder must respond within 10 days without any cost to Department of Geology for service and running the equipments. The warranty period will be extended proportionally if the down period is beyond 10 days.

Final Acceptance Test

1. The testing should be done for all the equipments supplied. All individual components should be sufficiently tested prior to shipment and checked for completeness of the specification quoted.
2. The bidder should successfully demonstrate the performance of all the equipments after supply as per our tender specification.
3. The successful bidder must integrate, install and test all the equipment at Department of Geology. The installation, testing and commissioning should start within two weeks after the equipments arrives at the site. The bidder will perform on-site test of all the equipments to be designated representative. After satisfactory completion of on-site test, the system will be operated continuously for a period of 15 days. If it functions without any hardware or software failure during this period, the system will be accepted as commissioned.

Procurement Details

1. Tenders to be invited under two part tendering system, namely Part-I: Techno-Commercial Bid and Part-II: Commercial Bid.
2. Payment Terms- Payment to be made in two parts.
    a. The I-Part of 80 % payment to be made through Irrevocable Letter of Credit/ Bank Transfer against shipping documents.

b. The II-Part of 20% payment to be made on acceptance of system and on submission of Bank Guarantee for equivalent value with validity for one year from the date of acceptance of goods.

3. For any delay in delivery, liquidated damage @ 1% of contract value per week to be levied with a maximum of 10 weeks. Once maximum is reached termination of order will be considered.
4. RISK PURCHASE VALUE if the supplier fails to supply the goods within the maximum time period specified in the order, the purchase may procure upon such terms and in such manner as it deems appropriate, goods for services similar to those undelivered and the supplier shall be liable to the purchaser for any excess costs for such similar goods and services.

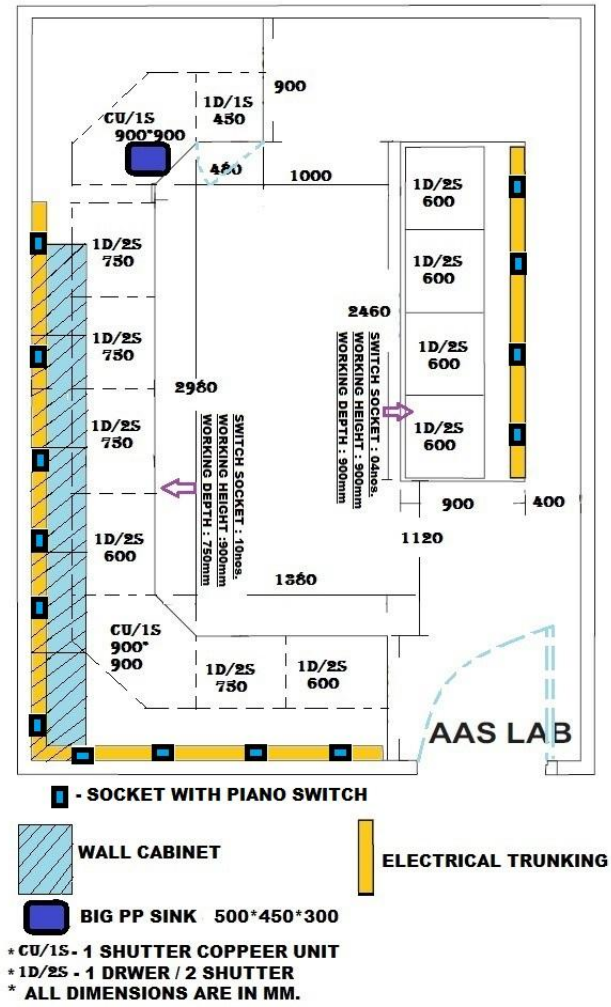
Centre of Advanced Study, Department of Geology
Kumaun University, Nainital 263 002

Specifications for Equipments and Accessories

(Imported/Indigenous)

Specifications for laboratory accessories (worktops and cabinet etc.)

- The lab working long table module is be completely made of 1 mm GI sheets with shutter and drawers front of sandwich construction and sound deadening plastic bumpers to minimise banging noise while closing the shutter. Lockable roller bearing to be fitted with the drawer to prevent it falling down.
- The entire module is to be made up of GI panels and bolted for high corrosive resistance. The shutters are to be mounted to the modules by hinges which can be opened to 95 degrees and can self closed on return.
- The table top to be made up of 15 to 20 mm thick Jet Black Granite, with Chamfer moulding at the front and grooves at the bottom to avoid chemical spillage on the module.
- The telescopic drawer slides should be able to take load up to 30 kg. All modules should have lock and duel key arrangement.
- The table module bottom frame should be pedestal type and finished with epoxy power coating.
- Provision for knee space area and foot rest with openable back cover panel.
- The Reagent racks with friction glass top to avoid corrosion and slippage of glass bottles.
- The complete module and frame work should be processed with pre-treatment and finished with high corrosion resistant poly board epoxy powder coating.
- Wall cabinets should be made up of seasoned and water resistance woodworks/plyboards.
- Chemical storage cabinets (wall and floor) for flammable materials with proper ducts and exhaust etc. finished with highly corrosive resistance with epoxy coating as per specification/designs

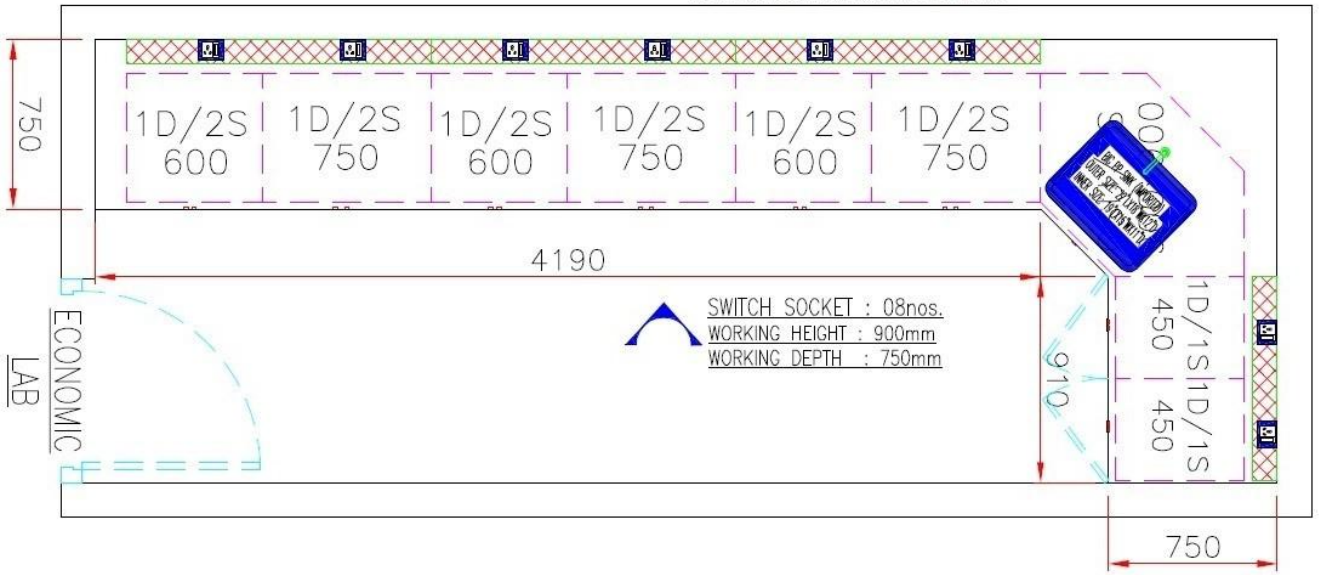

900
1D/1S
450
CU/1S
900*900
450
1000
1D/2S
600
1D/2S
600
1D/2S
600
1D/2S
600
1D/2S
750
1D/2S
750
1D/2S
750
1D/2S
600
2460
SWITCH SOCKET : 04nos.
WORKING HEIGHT : 900mm
WORKING DEPTH : 900mm
2980
SWITCH SOCKET : 10nos.
WORKING HEIGHT : 900mm
WORKING DEPTH : 750mm
900
400
1120
1380
CU/1S
900*
900
1D/2S
750
1D/2S
600
AAS LAB
- SOCKET WITH PIANO SWITCH
WALL CABINET
ELECTRICAL TRUNKING
BIG PP SINK 500*450*300
* CU/1S - 1 SHUTTER COPPEER UNIT
* 1D/2S - 1 DRWER / 2 SHUTTER
* ALL DIMENSIONS ARE IN MM.

- SOCKET WITH PIANO SWITCH

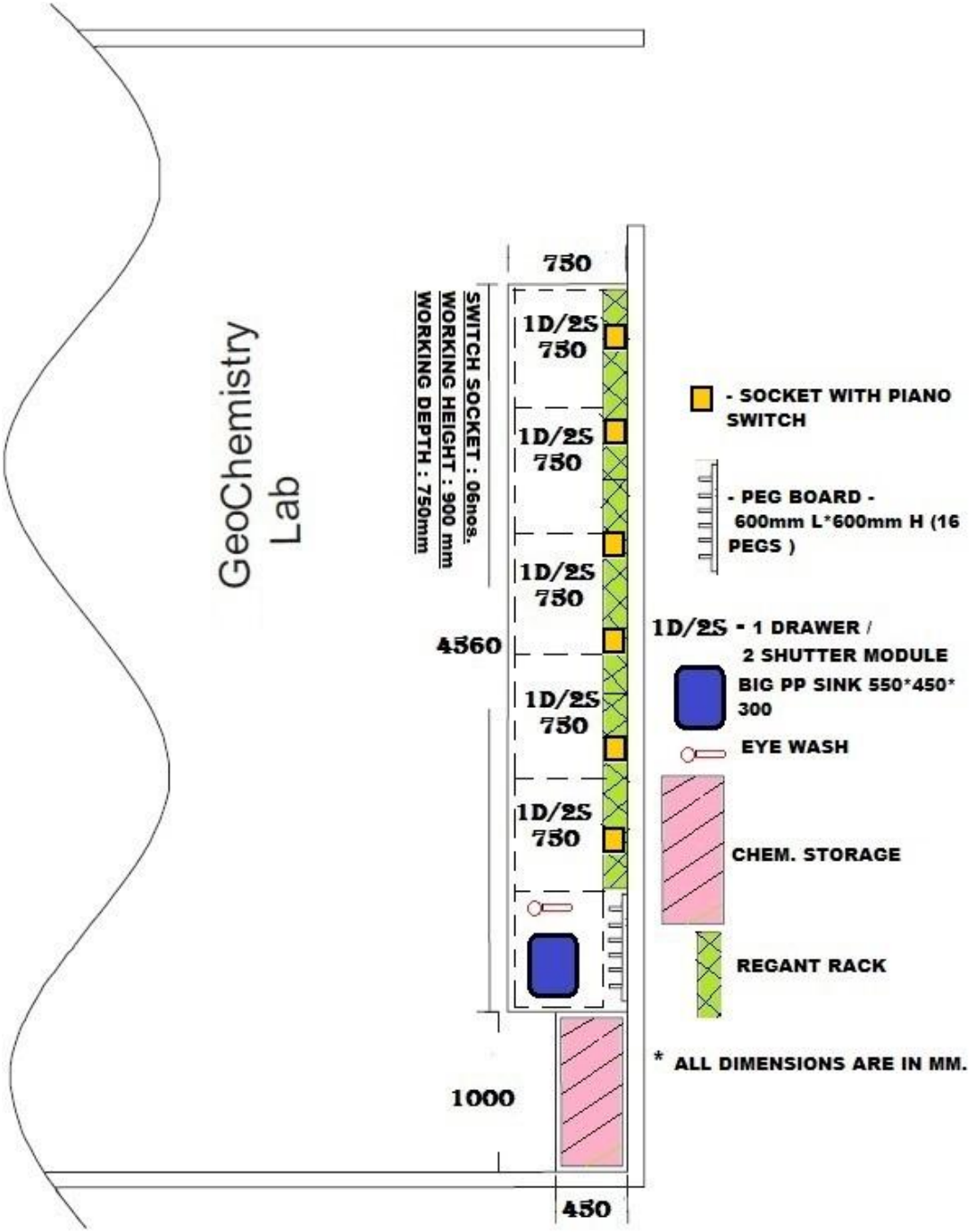
1D/2S - 1 DRAWER / 2 SHUTTER MODULE

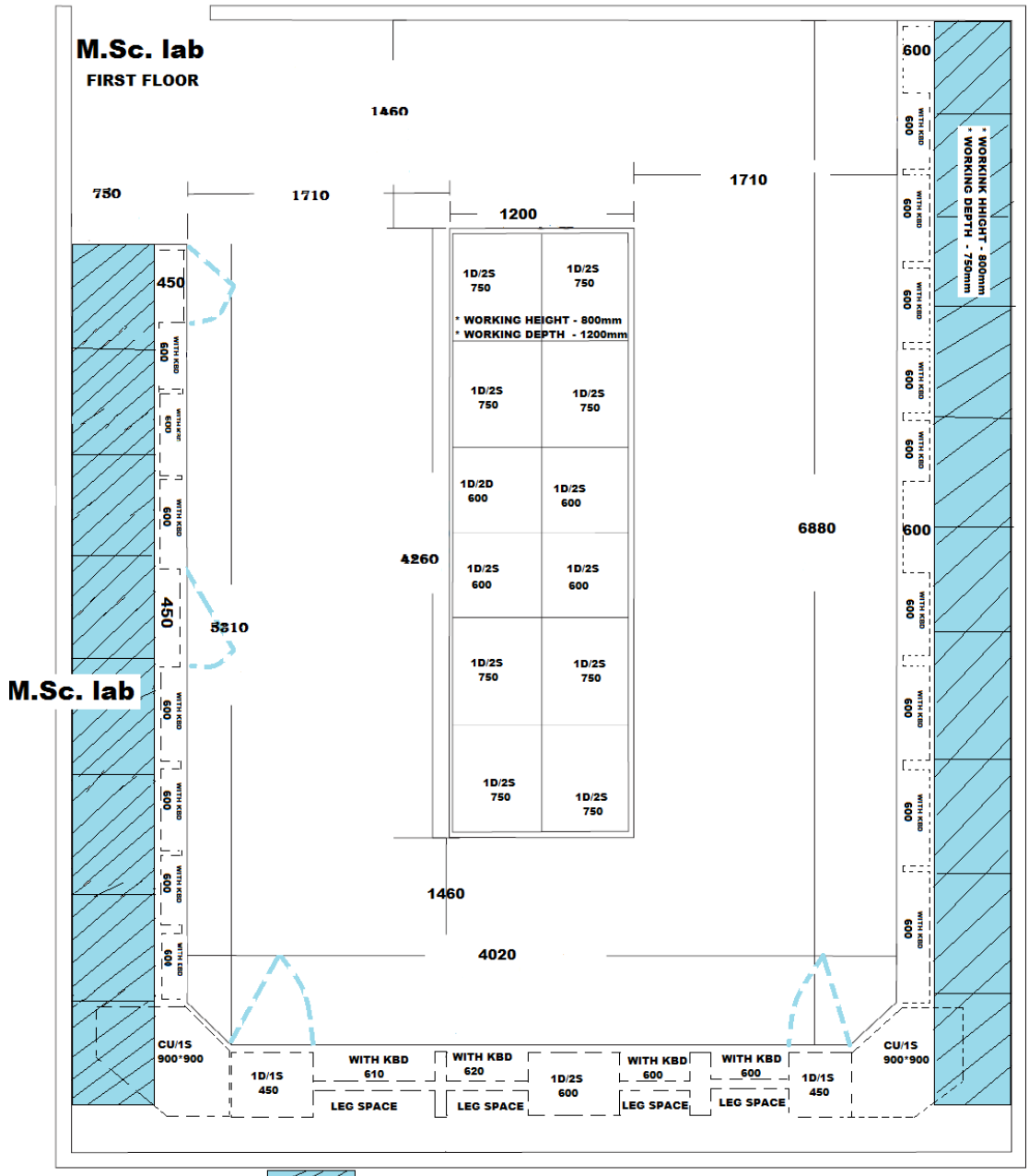
- BIG PP SINK 550*450*300

* ALL DIMENSIONS ARE IN MM.



ECONOMIC LAB


GeoChemistry Lab
750
SWITCH SOCKET : 06nos.
WORKING HEIGHT : 900 mm
WORKING DEPTH : 750mm
1D/2S 750
1D/2S 750
1D/2S 750
4560
1D/2S 750
1D/2S 750
1000
450
- SOCKET WITH PIANO SWITCH
- PEG BOARD - 600mm L*600mm H (16 PEGS)
1D/2S - 1 DRAWER / 2 SHUTTER MODULE
BIG PP SINK 550*450* 300
EYE WASH
CHEM. STORAGE
REGANT RACK
* ALL DIMENSIONS ARE IN MM.



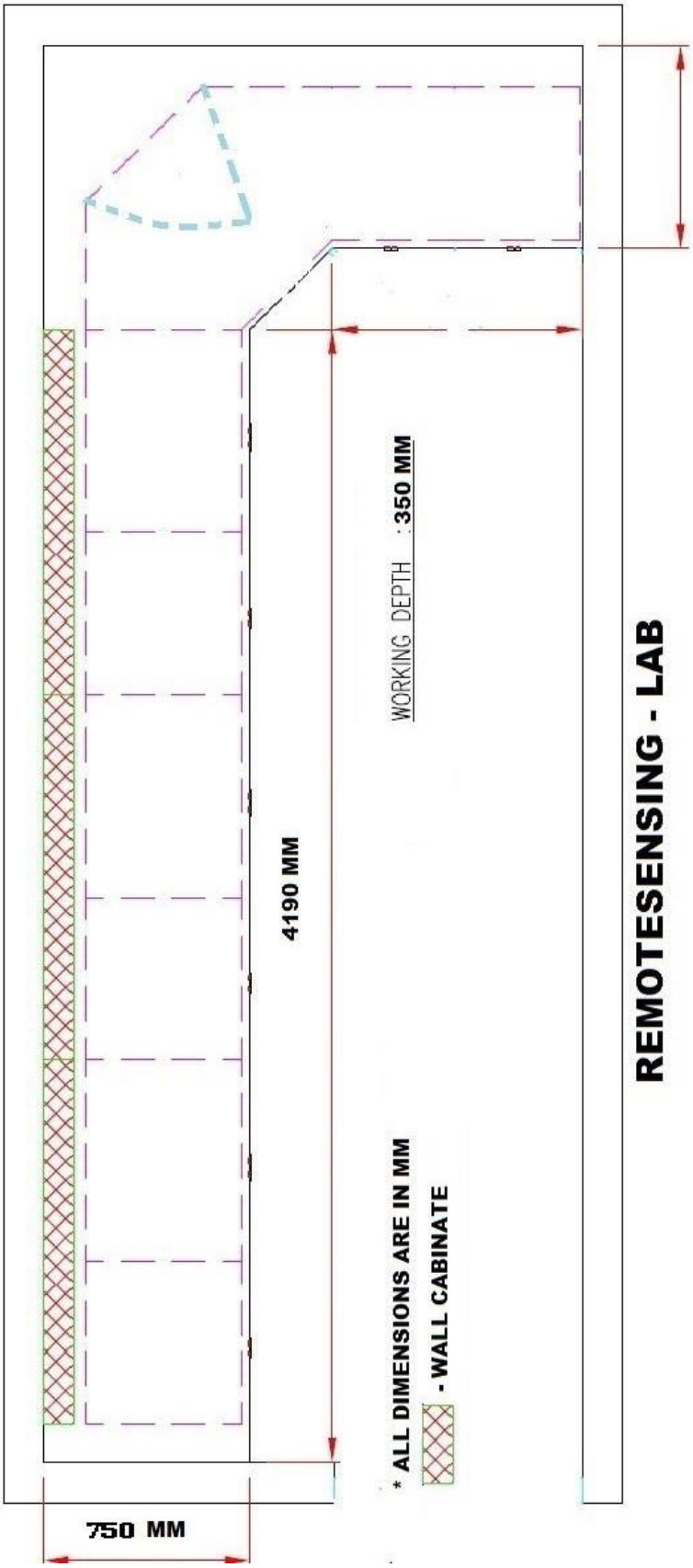
WALL CABINET

*1D/2S - 1 DRAWER / 2 SHUTER MODULE

*CU/1S - 1 SHUTTER COPPER UNIT

* ALL DIMENSIONS ARE IN MM.

M.Sc. lab


REMOTESENSING - LAB
WORKING DEPTH : 350 MM
4190 MM
750 MM
* ALL DIMENSIONS ARE IN MM
- WALL CABINATE